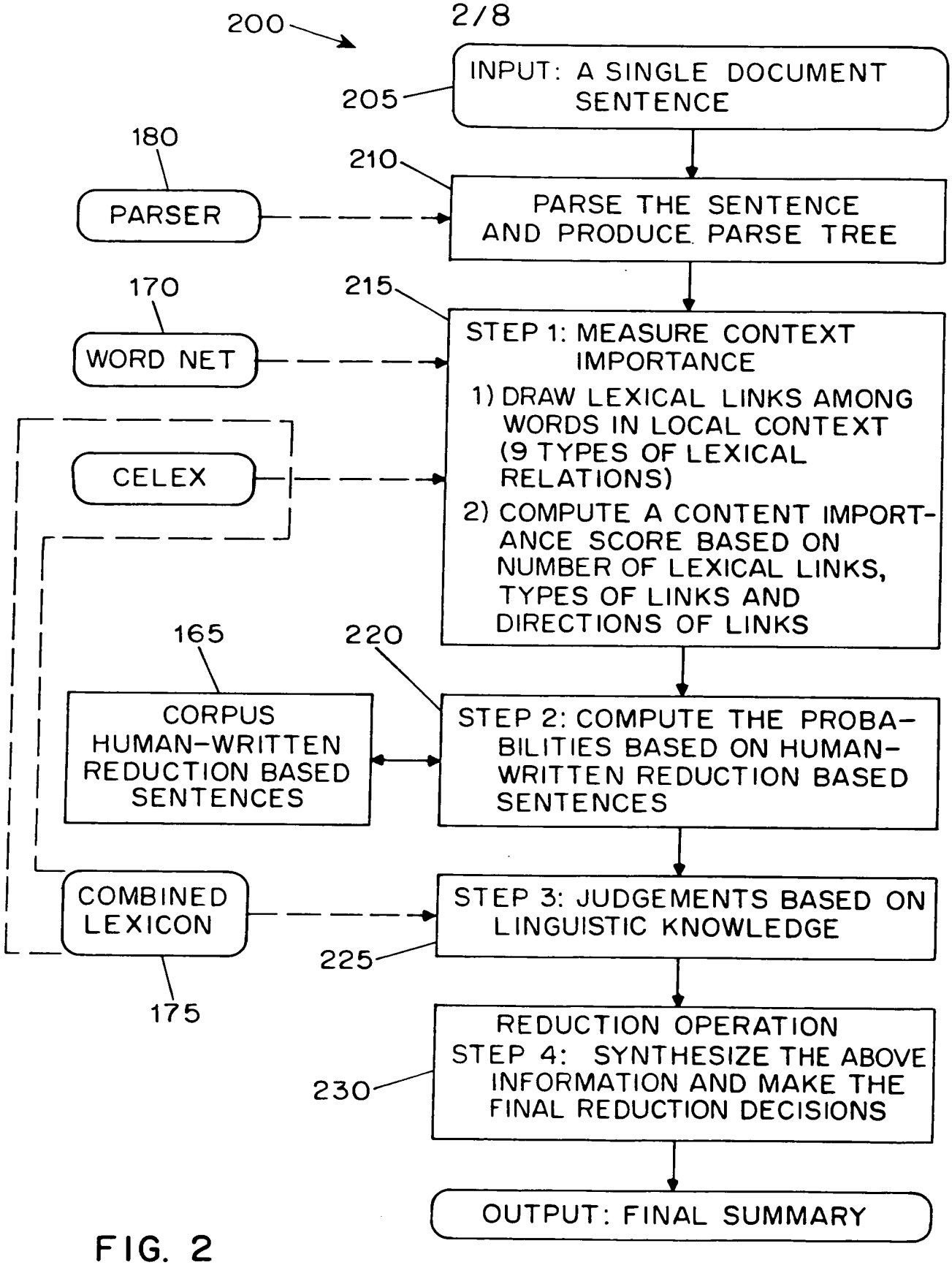
200
INPUT: A SINGLE DOCUMENT SENTENCE
205
180
PARSER
210
PARSE THE SENTENCE AND PRODUCE PARSE TREE
170
WORD NET
215
STEP 1: MEASURE CONTEXT IMPORTANCE
1) DRAW LEXICAL LINKS AMONG WORDS IN LOCAL CONTEXT (9 TYPES OF LEXICAL RELATIONS)
2) COMPUTE A CONTENT IMPORTANCE SCORE BASED ON NUMBER OF LEXICAL LINKS, TYPES OF LINKS AND DIRECTIONS OF LINKS
CELEX
165
220
CORPUS HUMAN-WRITTEN REDUCTION BASED SENTENCES
STEP 2: COMPUTE THE PROBABILITIES BASED ON HUMAN-WRITTEN REDUCTION BASED SENTENCES
COMBINED LEXICON
STEP 3: JUDGEMENTS BASED ON LINGUISTIC KNOWLEDGE
225
175
REDUCTION OPERATION
STEP 4: SYNTHESIZE THE ABOVE INFORMATION AND MAKE THE FINAL REDUCTION DECISIONS
230
OUTPUT: FINAL SUMMARY

FIG. 2